

13. (amended) The microscope according to Claim 12 wherein said objective is movable together in a Z direction, generally orthogonal to said X-Y directions thereby selecting different focal planes of said specimen where said spaced spots are incident.

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Conc'd
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14. (amended) An optical coherence imaging system for imaging a specimen section, which comprises a source providing light having low temporal coherence propagating in transverse, opposing-phase, multi-mode, a beam splitter which directs the light from said source into a reference arm and a sample arm wherein the light is incident on an image plane in said transverse, opposing phase, multi-mode in which it propagates to said image plane in the specimen section and spatially overlaps at one of behind, ahead, or behind and ahead, of the image plane, a scanner in said sample arm for scanning [each] said specimen in generally orthogonal directions, and also in said sample arm, an objective having an optical axis for focusing said low temporal coherence transverse, opposing phase, multi-mode light at a plurality of spots, a detection arm into which light is directed by said beam splitter from said reference and sample arms, and means for providing images in response to interference of light in said detection arm.

Please add new Claim 18 as follows:

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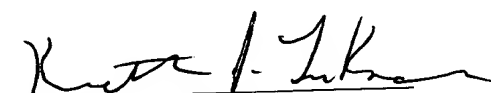
18. A system for imaging a section (or sections) of tissue comprising means for producing a beam having multiple, opposing-phase, transverse propagating modes, means for focusing said beam at a plurality of spots in said section of said tissue in accordance with said multiple, opposing phase, modes in which said modes overlap at one of behind, ahead, or behind and ahead, of the section, and collecting return light from said tissue, and means for detecting said return light combined from said plural spots to provide images representing said section of said tissue.

Remarks

Entry of this Amendment is requested for consideration by the Examiner.

Respectfully submitted,

Dated: August 14, 2001


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